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FIG.1

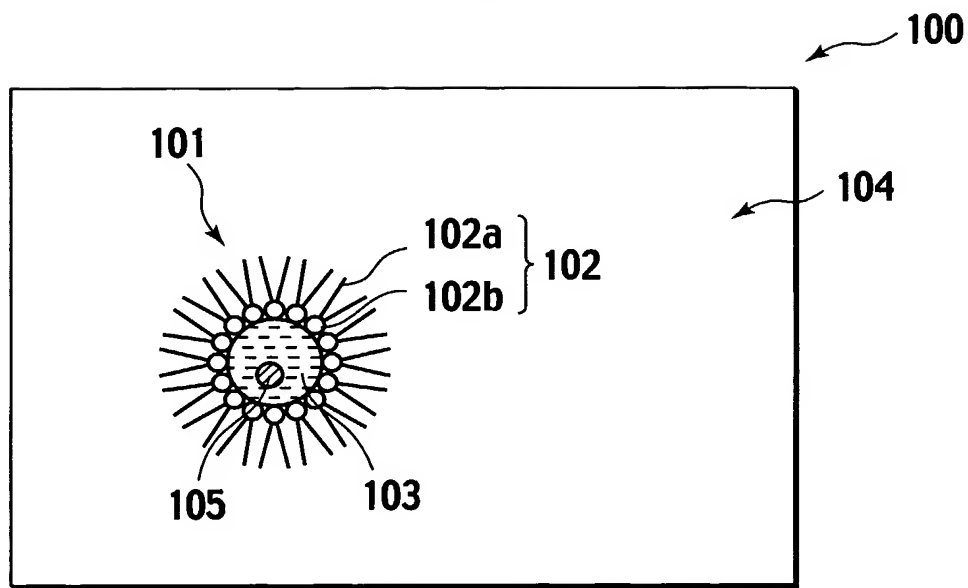
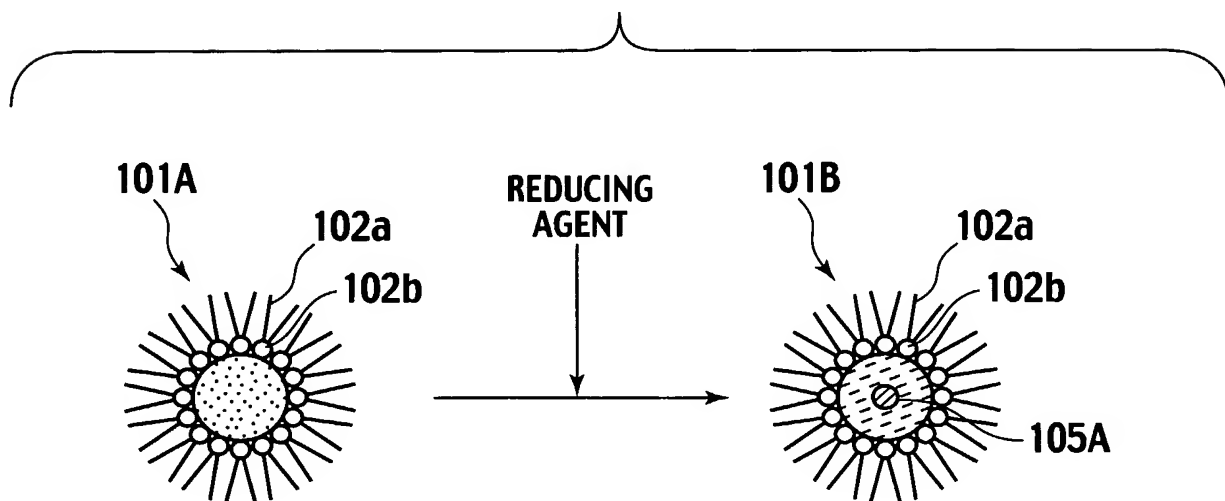
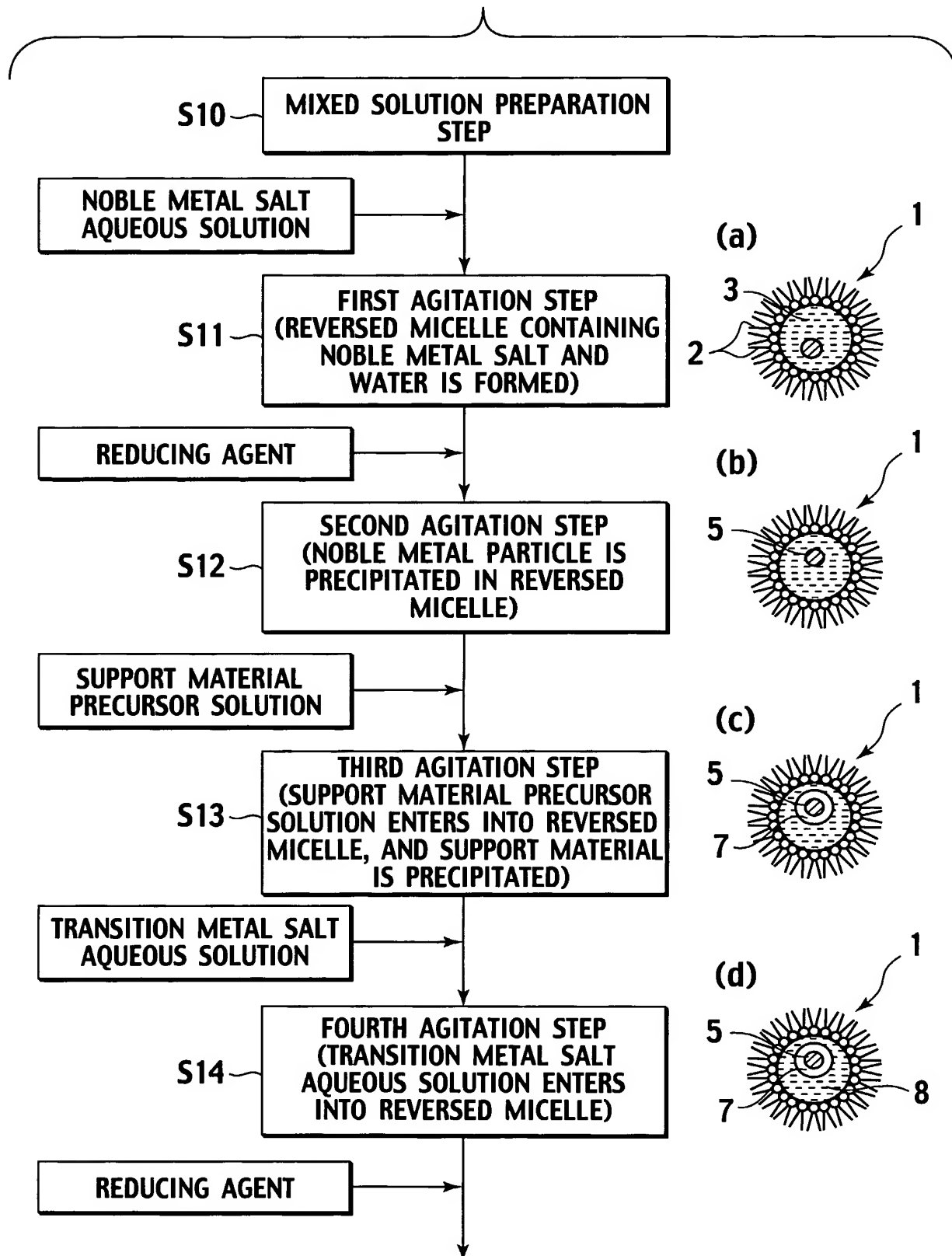


FIG.2



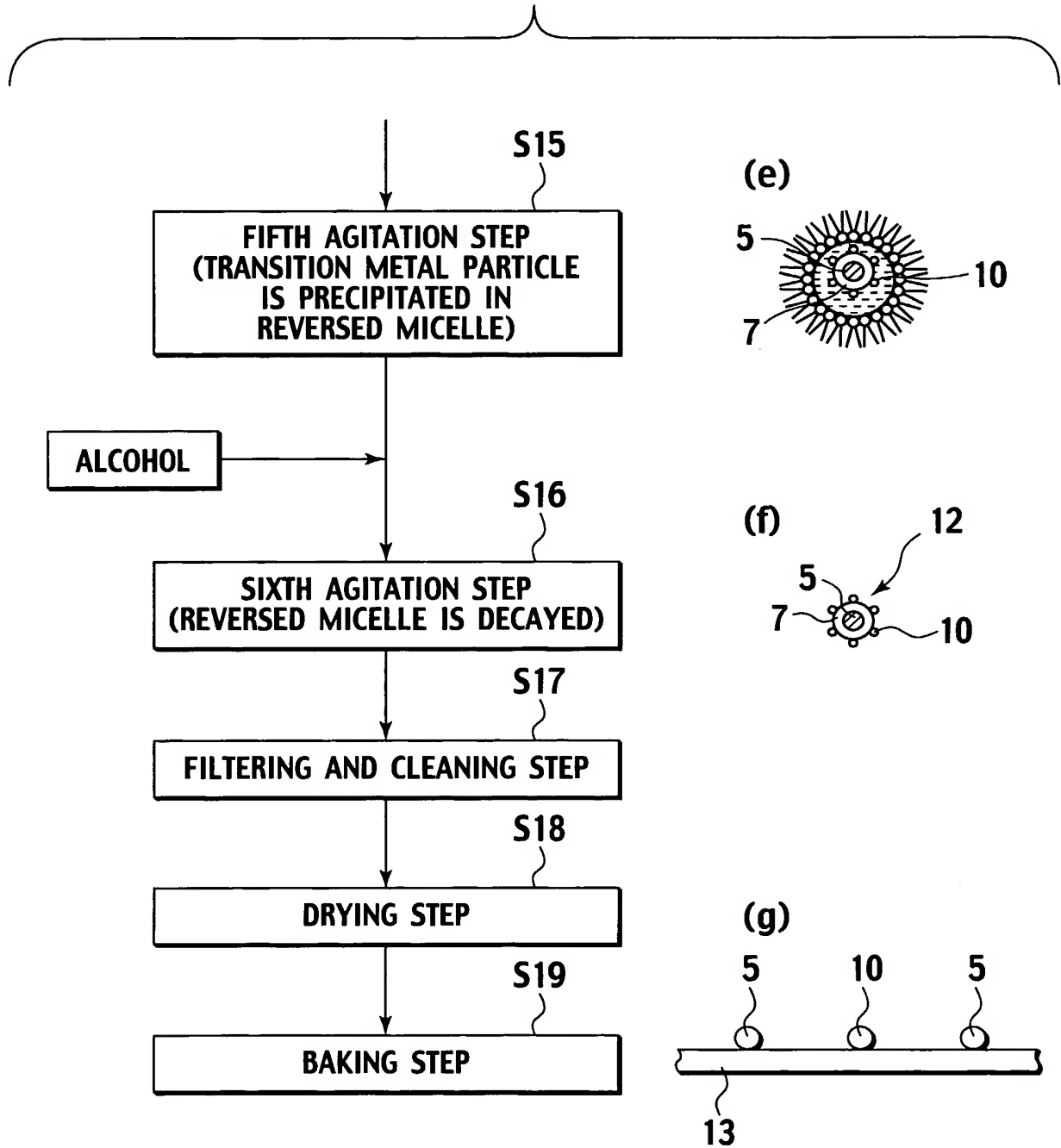
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FIG.3A



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FIG.3B



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FIG.4

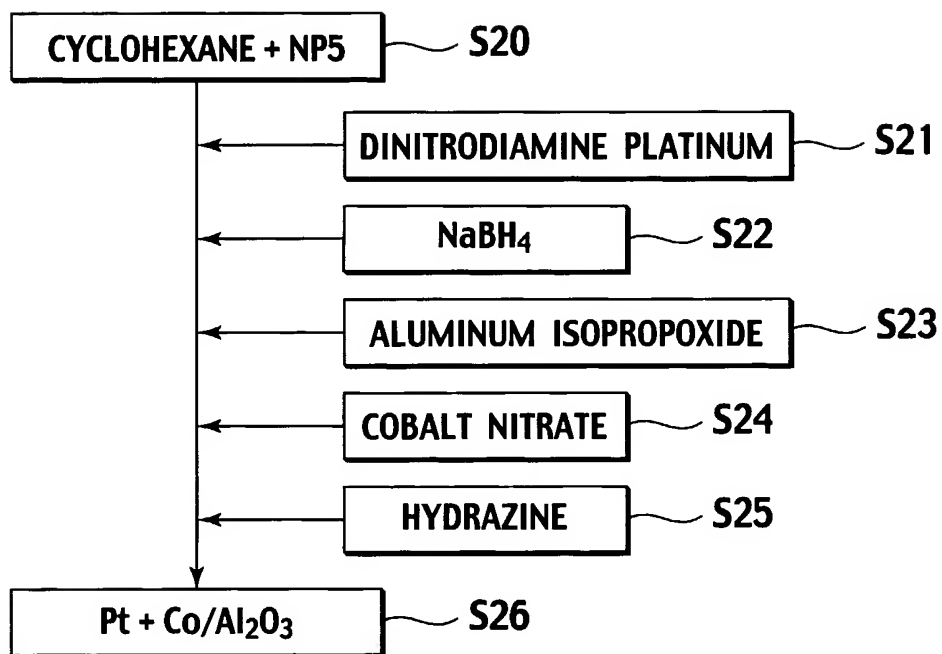
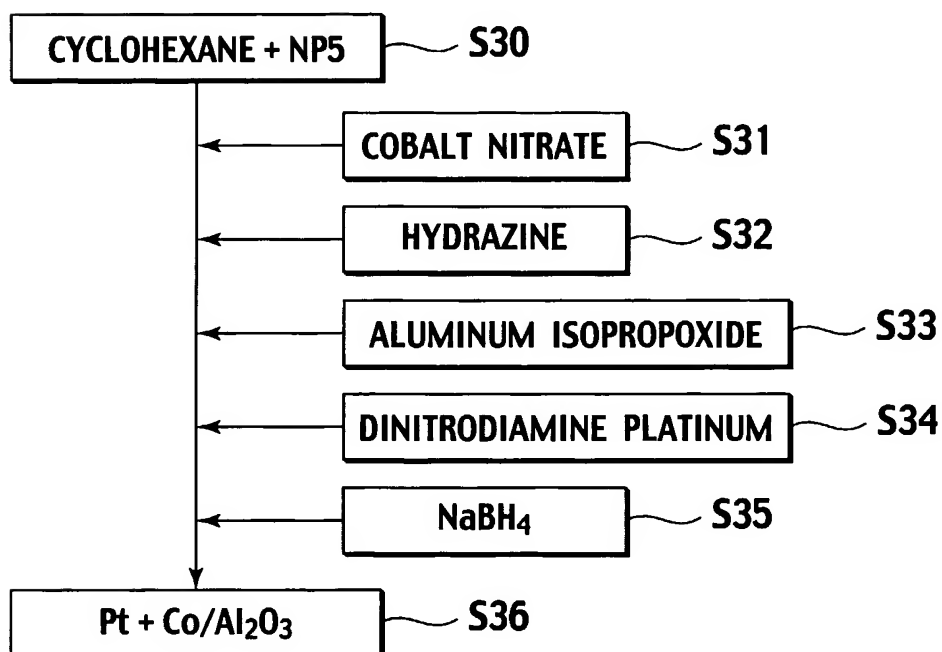


FIG.5



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FIG.6

|                       | STRUCTURE   | NOBLE METAL |                             | TRANSITION METAL |                             | ADDED ELEMENT IN SUBSEQUENT STEP | PRECURSOR OF POROUS OXIDE | COATING AMOUNT ON HONEYCOMB SUBSTRATE (g/L) | 50% DEGREE-OF-CONVERSION TEMPERATURE AFTER DURABILITY TEST OF 700°Cx30 Hrs. |     |     |
|-----------------------|-------------|-------------|-----------------------------|------------------|-----------------------------|----------------------------------|---------------------------|---|---|-----|-----|
|                       |             | TYPE        | SUPPORTED CONCENTRATION (%) | TYPE             | SUPPORTED CONCENTRATION (%) |                                  |                           |   | HC  | CO  | NOx |
| EXAMPLE 1             | A/C/B       | Pt          | 1.00                        | Co               | 5.0                         | -                                | ALUMINUM ISOPROPOXIDE     | 100   | 279   | 222 | 261 |
| EXAMPLE 2             | B/C/A       | Pt          | 1.00                        | Co               | 5.0                         | -                                | ALUMINUM ISOPROPOXIDE     | 100   | 282   | 216 | 265 |
| EXAMPLE 3             | A/C/B       | Pt          | 1.00                        | Fe               | 5.0                         | -                                | ALUMINUM ISOPROPOXIDE     | 100   | 291   | 226 | 271 |
| EXAMPLE 4             | B/C/A       | Pt          | 1.00                        | Fe               | 5.0                         | -                                | ALUMINUM ISOPROPOXIDE     | 100   | 299   | 230 | 275 |
| EXAMPLE 5             | A/C/B       | Pt          | 1.00                        | Co               | 5.0                         | Ce                               | ALUMINUM ISOPROPOXIDE     | 100   | 272   | 209 | 256 |
| EXAMPLE 6             | B/C/A       | Pt          | 1.00                        | Co               | 5.0                         | Ce                               | ALUMINUM ISOPROPOXIDE     | 100   | 277   | 203 | 259 |
| COMPARATIVE EXAMPLE 1 | IMPREGNATED | Pt          | 3.00                        | Co               | 5.0                         | -                                | ALUMINUM OXIDE            | 100   | 297   | 257 | 284 |
| COMPARATIVE EXAMPLE 2 | IMPREGNATED | Pt          | 3.00                        | Fe               | 5.0                         | -                                | ALUMINUM OXIDE            | 100   | 315   | 261 | 288 |
| COMPARATIVE EXAMPLE 3 | IMPREGNATED | Pt          | 3.00                        | Co               | 5.0                         | Ce                               | ALUMINUM OXIDE            | 100   | 292   | 243 | 267 |